

SURVEY ASBESTOS ASSES

H-K Building #: 25 Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E" Date Inspected: 03/27/89

Inspector: TIM SWARTZ

Building Number: 25

Building Name: FERMENTATION
SEATTLE, WASHINGTON
Building Type: BEER FERM.
Year Constructed: 1958

******* AREA NUMBER: 01 AREA DESCRIPTION: Basement-Tank Room AREA AVERAGE % ASBESTOS: 41% *******

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
along north wall	00-356408	60%	pipe covering	OMA	28 ft. 6 in. O.D	. HPS/R	28 111			\$590
along south wall	00-356408		pipe covering	OMA	55 ft. 4 in. 0.D			\$491		\$798
along south wall	00-356408	60%	pipe covering	OMA	8 ft. 6 in. 0.D	. HPS/R	28 111	\$104	\$65	\$169
along north wall	00-356408		pipe covering	OMA	65 ft. 4 in. O.D	. HPS/R	28 111			\$943
southwest area-above air handling unit	00-356408	60%	pipe covering	AMO	25 ft. 4 in. O.D	. HPS/R	28 111			\$362
along west wall	00-356408	60%	pipe covering	OHA	110 ft. 4 in. 0.D			\$981	\$614	\$1,595
crawl space-in north wall-near ceiling	00-356408	60%	pipe covering	OMA	5 ft. 4 in. 0.D					\$73
south center area-by convertor	00-356408	60%	pipe covering	OMA	46 ft. 4 in. 0.D					\$667
NE center area-above yeast retainers	00-356408		pipe covering	OMA	16 ft. 4 in. O.D					\$232
northeast area-by chilled water tank	00-356408		pipe covering	OMA	10 ft. 6 in. 0.D					\$211
by northeast concrete column	00-356408		pipe covering	OMA	60 ft. 4 in. 0.D					\$145
northeast area-by chilled water tank	00-356408	60%	pipe covering	OMA	12 ft. 4 in. 0.D					\$174
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	OMA	32 ft. 4 in. 0.D		28 111			\$464
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	OMA	3 ft. 8 in. 0.D		28 111			\$72
center-running north & south-at ceiling	00-356415	10%	wrapped cardboard/paper pipe	OHA	20 ft. 6 in. 0.D		28 111			\$422
north wall-northeast area	00-356415	10%	wrapped cardboard/paper pipe	OMA	6 ft. 6 in. 0.D		28 111			\$127
center-running north & south-at ceiling	00-356415	10%	wrapped cardboard/paper pipe	OMA	95 ft. 4 in. 0.D		28 111			\$1,377
NW center area-above yeast retainers	00-356415	10%	wrapped cardboard/paper pipe	AMO	48 ft. 4 in. 0.0		28 111	\$428	\$268	\$696
along north & west walls	02-356404	0%	mjp on non-suspect pipe cover	OMA	15 4 in. O.D.	DW		ļ		
	02-356405	0%						'		
	02-356406	0%								
along north wall	03-356409	60%	mjp on pipe covering	OMA	13 6 in. O.D.	HPS/R			\$295	\$798
crawl space-in north wall-near ceiling	03-356409		mjp on pipe covering	AHO	1 4 in. O.D.	HPS/R			\$16	\$44
southwest area-above air handling unit	03-356409		mjp on pipe covering	OMA	3 4 in. 0.D.		28 111		\$47	\$131
along north wall	03-356409		mjp on pipe covering	OMA	16 4 in. O.D.	HPS/R	28 111		\$250	\$699
along south wall	03-356409		mjp on pipe covering	AMO	4 6 in. O.D.	HPS/R			\$91	\$246
along south wall	03-356409	60%	mjp on pipe covering	OMA	20 4 in. O.D.	HPS/R	28 111	\$562	\$312	\$874
along west wall	03-356409	60%	mjp on pipe covering	OMA	6 4 in. 0.D.	HPS/R	28 111	\$169	\$94	\$263
by northeast concrete column	03-356409	60%	mjp on pipe covering	AMO	2 4 in. O.D.	HPS/R	28 111	\$56	\$31	\$87
NE center area-above yeast retainers	03-356409	60%	mjp on pipe covering	OMA	3 4 in. O.D.	HPS/R	28 111	\$84	\$47	\$131
northeast area-by chilled water tank	03-356409	60%	mip on pipe covering	OMA	2 6 in. O.D.	HPS/R	28 111	\$77	\$45	\$122
northeast area-by chilled water tank	03-356409	60%	mjp on pipe covering	OMA	3 4 in. O.D.	HPS/R	28 111	\$84	\$47	\$131
south center area-by convertor	03-356409		mjp on pipe covering	OMA	14 4 in. O.D.	HPS/R				\$612
	03-356410	40%	,r			,	28 111			
	03-356411	50%					28 111			
south center area-convertor tank-by AHU	04-356412		boiler/tank insulation	OMB	11 sq.ft.		28 111		\$249	\$560
South Series and Contentor Cank by Allo	04-356413	50%	DOTTOT, CHIR HIDGE WETON	J-10	11 34.11.		28 111		4247	4200
	04-356414	50%	ĺ				28 111			
manth wall-manthage and	05-356416		lain an Unannad agadhaard (OWA	3 9 1- 0 5	D. I			\$57	\$153
north wall-northeast area			mjp on wrapped cardboard/paper		2 8 in. 0.D.	DW	28 111			\$614
center-running north & south-at ceiling	05-356416		mjp on wrapped cardboard/paper		10 6 in. 0.D.	DW	28 111		\$227	
north wall-northeast area	05-356416	40%	mjp on wrapped cardboard/paper	OMA	12 4 in. O.D.	DW	28 111	\$337	\$187	\$524

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H-K Building #: 25 Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89

SEATTLE, WASHINGTON Building Type: BEER FERM. Year Constructed: 1958

Building Name: FERMENTATION

Building Number: 25

Inspector: TIM SWARTZ

north wall-northeast area	05-356416	40%	mjp on wrapped cardboard/paper	OHA	3 6 in. O.D.	DW	28 111	\$116	\$68	\$184
center-running north & south-at ceiling	05-356416	40%	mjp on wrapped cardboard/paper	OMA	15 4 in. O.D.	D₩	28 111	\$421	\$234	\$655
NW center area-above yeast retainers	05-356416	40%	wrapped cardboard/paper pipe	OMA	16 ft. 4 in. O.D.	DW	28 111	\$143	\$89	\$232
	05-356417	50%	1				28 111			1
	05-356418	50%	1				28 111			1
SE area-above refrigeration tanks	06-356419	20%	mip on non-suspect pipe cover	OMA	6 4 in. O.D.	DR	28 111	\$169	\$94	\$263
	06-356420	50%	1				28 111			1
	06-356421	50%					28 111			
			<u> </u>							

AREA COMMENTS

AREA # 01 TOTAL \$10,230 \$6,210 \$16,440

The materials are in fair to good condition with minor contact and water damage. The materials are approximately 1' to 16' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, extensive gross removal procedures are recommended. This appears to be a high traffic area.

****** AREA NUMBER: 02 AREA DESCRIPTION: Basement AREA AVERAGE % ASBESTOS: 3% ******

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
tank room-running N & S-at center of rm east of elevator tank room-SE area-above ammonia tanks	07-356422 07-356422 07-356422 07-356423 07-356424	2%	cork pipe covering cork pipe covering cork pipe covering	OMA OMA OMA	10 f	t. 8 in. 0.1 t. 12 in. 0 t. 8 in. 0.1	.D RS/R	12 12 12 12 12	IV IV IV	\$354 \$220 \$424	\$253 \$169 \$303	\$607 \$389 \$727

AREA COMMENTS

AREA # 02 TOTAL \$998 \$725 \$1.723

The material is in good condition with minor contact and water damage. The material is approximately 10' from the floor. At a minimum, it is recommended that the material be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a high traffic area.

****** ******** AREA NUMBER: 03 AREA DESCRIPTION: 1st Floor-Above Permanent Ceiling AREA AVERAGE % ASBESTOS: 28%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE 10	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356400 00-356400 00-356407 01-356401 01-356401	10% 50% 40%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mjp on wrapped cardboard/paper mjp on wrapped cardboard/paper		7 ft. 4 in. 0.D. 7 ft. 8 in. 0.D. 7 ft. 6 in. 0.D. 1 4 in. 0.D. 2 8 in. 0.D.	DW	17 17 17 17 17	IV IV IV	\$62 \$99 \$91 \$28 \$96	\$39 \$71 \$57 \$16 \$57	\$101 \$170 \$148 \$44 \$153

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H-K Building #: 25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION

SEATTLE, WASHINGTON

Building Type: BEER FERM.

Year Constructed: 1958

01-356403 40% 17 IV

AREA COMMENTS

AREA # 03 TOTAL \$376 \$240 \$616

The materials are in good condition with minor contact and water damage. The materials are approximately 1' to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

****** ***** AREA DESCRIPTION: 2nd Floor-Above Permanent Ceiling AREA NUMBER: 04 AREA AVERAGE % ASBESTOS: 22%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356425 00-356425 00-356429 08-356426 08-356426 08-356427 08-356428	10% 35% 35%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mjp on wrapped cardboard/paper mjp on wrapped cardboard/paper			DW	17 17 17 17 17 17	IV IV IV IV	\$178 \$99 \$91 \$144 \$197	\$112 \$71 \$57 \$85 \$109	\$290 \$170 \$148 \$229 \$306

AREA COMMENTS

\$1,143 AREA # 04 TOTAL \$709 \$434

The materials are in good condition with minor contact and water damage. The materials are approximately 1' to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

*****	AREA NUMBER: 05	AREA DESCRIPTION:	: 3rd Floor-Above Permanent Ceiling	g AREA AVERAGE % ASBESTOS: 22%	*****

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE 10	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
restroom restroom restroom restroom restroom	00-356430 00-356430 00-356434 09-356431 09-356431 09-356432 09-356432	10% 35% 33%	wrapped cardboard/paper pipe wrapped cardboard/paper pipe pipe covering mjp on wrapped cardboard/paper mjp on wrapped cardboard/paper		20 ft. 4 in. 0.D. 7 ft. 8 in. 0.D. 7 ft. 6 in. 0.D. 7 4 in. 0.D. 3 8 in. 0.D.	DW	17 17 17 17 17	IV IV IV IV	\$178 \$99 \$91 \$197 \$144	\$71 \$57 \$109	\$290 \$170 \$148 \$306 \$229

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H-K Building #: 25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E" Date Inspected: 03/27/89

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION

SEATTLE, WASHINGTON Building Type: BEER FERM.

Year Constructed: 1958

AREA COMMENTS

AREA # 05 TOTAL \$709 \$434 \$1,143

The materials are in good condition with minor contact and water damage. The materials are approximately 1' to 10' from the floor. At a minimum, it is recommended that the materials be maintained and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID		PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
janitor's closet	00-356435	10%	wrapped cardboard/paper pipe	OMA	18 ft. 4 in. 0.D.	DW	18	IV	\$161	\$100	\$26
ianitor's closet	00-356435	10%	wrapped cardboard/paper pipe	OMA	8 ft. 8 in. O.D.	DW	18	10	\$113	\$81	\$19
lanitor's closet	00-356439	50%	pipe covering	OMA	10 ft. 4 in. 0.D.	HPS/R	18	IV	\$89	\$56	\$14
ianitor's closet	00-356439	50%	pipe covering	OMA	55 ft. 6 in. O.D.	HPS/R	18	10	\$714	\$446	\$1,16
janitor's closet	10-356436	20%	mjp on wrapped cardboard/paper	OMA	6 4 in. 0.D.	DW	18	I۷	\$169	\$94	\$26
ianitor's closet	10-356436	20%	mjp on wrapped cardboard/paper	OMA	3 8 in. O.D.	DW	18	IV	\$144	\$85	\$22
••	10-356437	30%					18	ıv İ		,	
	10-356438	30%	1				18	17			
janitor's closet	11-356440	50%	mjp on pipe covering	OMA	5 4 in. O.D.	HPS/R	18	1V	\$140	\$78	\$21
janitor's closet	11-356440	50%	mjp on pipe covering	OMA	21 6 in. O.D.	HPS/R	18	I۷	\$812	\$477	\$1,28
•	11-356441	50%					18	I۷			
	11-356442	50%					18	I۷			

AREA COMMENTS

AREA # 06 TOTAL \$2,342 \$1,417 \$3,759

The materials are in fair condition with localized contact and water damage. The materials are approximately 1' to 7' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

******** AREA NUMBER: 07 AREA DESCRIPTION: 4th Floor-Above Permanent Ceiling AREA AVERAGE % ASBESTOS: 62% ************

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
janitor's closet	12-356443 12-356444 12-356445	60% 70% 55%	debris	OMF	6 sq.ft.	•	110 110 110	I	\$100	\$0	\$100

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ASBESTOS ASSES SURVEY

H-K Building #: 25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION SEATTLE, WASHINGTON

Building Type: BEER FERM.

Year Constructed: 1958

AREA COMMENTS

AREA # 07 TOTAL \$100 \$0 \$100

This debris is magnesia pipe covering found on the floor of this area. At a minimum, it is recommended that the debris be removed. If removal is planned, gross removal procedures are recommended. This appears to be a low traffic area.

****** AREA NUMBER: 08 AREA DESCRIPTION: 5th Floor-Hot Wort Tank Room ****** AREA AVERAGE % ASBESTOS: 35%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	YTITHAUD	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
north wall-near floor north wall-near floor north wall-near floor	00-356446 00-356447 13-356448 13-356449 13-356450	30%	pipe covering pipe covering mjp on pipe covering	OMA OMA OMA	4 f	t. 4 in. (t. 4 in. (in. 0.D.		24 24 24	111 111 111 111 111	\$36 \$56	\$22 \$22 \$31	\$58 \$58 \$87

AREA COMMENTS

AREA # 08 TOTAL \$203 \$128 \$75

The materials are in good condition with minor contact damage. The materials are up to 4° from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a low traffic area.

***** --------AREA NUMBER: 09 AREA DESCRIPTION: Basement AREA AVERAGE % ASBESTOS: 30%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE ID	EXP POT	PL F	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL
area east of elevator	00-356408	60%	pipe covering	OMA	18 ft. 4 in. O.D.	HPS/R	25 I	111	\$161	\$100	\$26
area east of elevator	00-356415	10%	wrapped cardboard/paper pipe	OMA	18 ft. 8 in. O.D.	DW	25 1	111	\$255	\$182	\$43
area east of elevator	00-356415	10%	wrapped cardboard/paper pipe	AMO	8 ft. 6 in. 0.D.	DW	25 I	11	\$104	\$65	\$16
area east of elevator	00-356415	10%	wrapped cardboard/paper pipe	AMO	25 ft. 4 in. O.D.	DW	25 1	11	\$223	\$139	\$36
of elevator-SE corner-above HW heater	00-356737	50%	pipe covering	AMO	8 ft. 4 in. O.D.	DW	25 1	111	\$71	\$45	\$11
area east of elevator	02-356404 02-356405 02-356406	0% 0% 0%	mjp on non-suspect pipe cover	OMA	4 4 in. O.D.	DW					
rea east of elevator	03-356409 03-356410 03-356411	60% 40% 50%	mjp on pipe covering	OMA	8 4 in. O.D.	HPS/R	25 I 25 I 25 I	11	\$225	\$125	\$3
rea east of elevator	05-356416	40%	mjp on wrapped cardboard/paper	OMA	6 8 in. O.D.	DW	25 1	11	\$289	\$170	\$4
rea east of elevator	05-356416		mjp on wrapped cardboard/paper		8 4 in. O.D.	DW	25 1	11	\$225	\$125	\$3
area east of elevator	05-356416 05-356417		mjp on wrapped cardboard/paper		7 6 in. O.D.	DW	25 I 25 I		\$271	\$159	\$4

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H-K Building #: 25

Project Number: 0980193E

Project: G. HEILEMAN BREWERY "E"

Date Inspected: 03/27/89 Inspector: TIM SWARTZ Building Number: 25

Building Name: FERMENTATION SEATTLE, WASHINGTON

Building Type: BEER FERM.

Year Constructed: 1958

05-356418 50%

25 111

03 330410 307

25 111

AREA COMMENTS

AREA # 09 TOTAL \$1,824 \$1,110 \$2,934

The materials are in good condition with minor contact damage. The materials are approximately 5' to 12' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, gross removal procedures are recommended. This appears to be a high traffic area.

****** AREA NUMBER: 10

AREA DESCRIPTION: Stairwells

AREA AVERAGE % ASBESTOS: 20%

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	UNITS OF QUANTITY MEASURE	PIPE	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL
2nd floor 3rd floor	00-356425 00-356430		wrapped cardboard/paper pipe wrapped cardboard/paper pipe	AMO AMO	12 ft. 4 in. 0.D. 12 ft. 4 in. 0.D.			111	\$107 \$107	\$67 \$67	\$174 \$174
4th floor	00-356435	10%	wrapped cardboard/paper pipe	OMA	12 ft. 4 in. O.D.	DW	25	111	\$107 \$28	\$67	\$174 \$44
2nd floor	08-356426 08-356427 08-356428	32% 30%	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW	25		\$28	\$16	344
3rd floor	09-356431 09-356432	33% 20%	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW	25 25	111	\$28	\$16	\$44
4th floor	09-356433 10-356436 10-356437 10-356438	40% 20% 30% 30%	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW	25 25	111 111 111	\$28	\$16	\$44

AREA COMMENTS

AREA # 10 TOTAL \$405 \$249 \$654

The materials are in good condition with minor contact damage. The materials are approximately 6' to 16' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, localized glove bag removal procedures are recommended. This appears to be a high traffic area.

BUILDING # 25 TOTAL \$17,821 \$10,894 \$28,715